

ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415 International Specialists in the Environment

PRELIMINARY ASSESSMENT EXECUTIVE SUMMARY

EPA Region 5 Records Ctr.

TO: Colleen Hart, U.S. EPA

FROM: Craig G. Raben, FIT

DATE: September 18, 1991

SUBJECT: Griffin Wellpoint Corporation, (aka Griffin Dewatering Co.)

Hammond, Indiana; IND016366213/R05-8605-06/FIN0530PA

From 1967 to present, Griffin Wellpoint Corporation (Griffin) site has been an active construction company located at 3450 Calumet Avenue, Lake County, Hammond, Indiana, that specializes in removing impurities from groundwater (dewatering). The site is located in a highly industrialized area.

This 8-acre site is divided into two sections. The back forty section is used to store old well construction equipment and rusted, empty drums. This area is vegetated by weeds and grass. The operations section of the site consists of a garage or work shed, storage tanks that contained diesel fuel, and a storage area for feedstocks. Feedstocks include oil, paint, paint thinner, and degreaser, which are stored in 55-gallon drums; no wastes are produced from use of the feedstocks.

On September 10, 1980, U.S. EPA investigated the site and observed 290 empty drums and 16 open drums that were full or partially full, stored in the back forty storage section. Only one full drum was labeled; its contents were identified as ethylene glycol. Many of the empty drums were completely rusted out. During the investigation, Mr. Hockberger (manager of the site), stated that the fuller drums pre-

viously contained paint, fuel oil, or antifreeze. He also stated that the contents of the fuller drums had become too diluted with rainwater and were stored as unusable product.

A minor chemical spill occurred in the operations part of the facility on April 14, 1986, when an employee left a garden hose on overnight while mixing a solution of one (1) part Carb-Gon (automotive parts cleaner) and two (2) parts water. The solution overflowed onto the floor of the storage area; approximately 200 gallons of the solution was spilled into a floor drain, which drains into a ditch in front of the site. The ditch is connected to a drainage system that eventually empties into the Indiana Harbor Canal, approximately 2 1/2 miles east of the site. The company pumped 7,100 gallons of discolored water from the ditch into empty tanks that were then stored on-site for later use. No samples of spilled material were collected.

On June 4, 1991, Ecology and Environment, Inc./Field Investigation Team (FIT), conducted an off-site reconnaissance inspection of the Griffin site. FIT observed approximately 20 drums stored on a holding rack behind the feedstock area. Piles of rusted equipment were located in the feedstock area, which was surrounded by a fence with a gate. FIT observed stressed vegetation adjacent to the ditch in front of the site.

The site overlies a highly permeable subsurface with a high water table, but migration to groundwater is unlikely due to the small amount of waste spilled into the soil. The groundwater within 4 miles of the Griffin site is not used for drinking purposes. Residences within a 4-mile radius obtain water from surface water intakes on Lake Michigan. The closest surface water intake is the Whiting Intake, located approximately 7 1/2 miles from the site.

There is a potential for migration to occur to the surface water and fisheries through the ditch located in front of the site. Any substances that flow into the floor drain will flow into the ditch and into the drainage system that empties into the Indiana Harbor Canal. A wet-

lands area is located approximately 1/2 mile from the site. However, because no overland migration pathway was observed, the probability of substances migrating to this wetlands is low.

Three homes are located within 200 feet of the site; approximately 40 employees work on-site. There is a potential for direct contact to occur.

No odors associated with the site have been reported, the site is well vegetated and there has been no observed release of hazardous substances into the air. Therefore, the probability of substances to migrate in the form of windblown particulates is low.

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MEMORANDUM

TO:

Colleen Hart, U.S. EPA

FROM:

Craig A. Raben, FIT

DATE:

September 18, 1991

SUBJECT: Griffin Wellpoint Corporation (aka Griffin Dewatering Co.)

Hammond, Indiana; IND016366213/R05-8605-06/FIN0530PA

During a United States Environmental Protection Agency (U.S. EPA) inspection of the Griffin Wellpoint Corporation site in Hammond, Indiana conducted on September 10, 1980, the site operator, Mr. Hockberger, stated that the company would clean up the drums in the yard and dispose of them in a responsible manner. On June 4, 1991, Ecology and Environment, Inc./Field Investigation Team (FIT) conducted an off-site reconnaissance inspection of the site. FIT believes complete clean-up did not occur because during this inspection approximately 20 drums and a number of piles of rusted equipment were observed.

FIT recommends that the Griffin site proceed to the screening site inspection level with medium priority because of the potential for contaminants to migrate to surface water via the ditch in front of the site and through the drainage system. Also, there is a high potential for direct contact to occur via soil exposure for the residents living adjacent to the site and the approximately 40 employees who work on-site.

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PA Scoresheets

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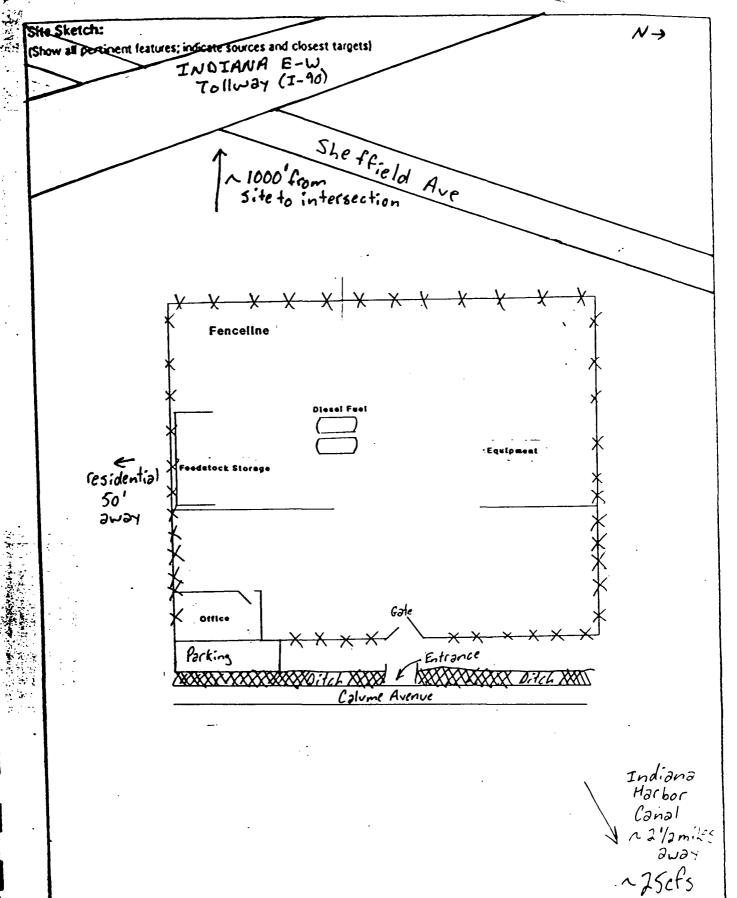
OWNERVOPERATOR	DENTIFICATION
owner Griffin Dewatering Corp.	OPERATOR Griffin Dewatering Corp.
OWNER ADDRESS 500 Winding brook Or.	OPERATOR ADDRESS 3450 Calumet Ave.
an Glasstonbrary	CITY Hammand
STATE ZIP COOK TELEPHONE N/A	STATE IN ZIP COOR TELEPHONE 12/91 931-1662

	TYPE OF OWNERSHIP	OWNER/OPERATOR NOTEFICATION ON FILE
	PRIVATE FEDERAL: Agency name	■ NONE
0 0	STATE COUNTY	D CERCLA 103 C, UHONTROLLED WASTE SITE
 00	MUNICIPAL OTHER:	☐ RCRA 3001
0	NOT SPECIFIED	DATE:

SITE STATUS	YEARS OF OPERATION	APPROXIMATE SIZE OF SITE
ACTIVE I NACTIVE UNKNOWN	ENDING YEAR: 1967 EHOING YEAR: CUTTENT C UNKNOWN	& Acres

	SITE EVALUATION
AGENCY / ORGANIZATION	Ecology and Environment
PIVESTIGATOR	Craia A. Raben
CONTACT	Harry Atkinson (IDEM) (317)
- george	111 W. Jackson Blud., 12th floor Chicago, Illinois
1312 66	, — — — — — — — — — — — — — — — — — — —
DATT August	19,1991

GAREN, WE ROOF + CUR.



(3,9,10,11,12)

Site Description and Operations History.

Driffin Wellpoint AKA Suffin Dewatering lo. is an active construction company located in

Hammond, fordianathan specializes in dewatering groundwater. The company consides of
an office connected to a garage where all maintenance is handled. The E acre site is divided into two parts. The "back forty" yards is a fairly weided over one that contains old well equipment and moted empty draws emitting not funes trackable with HAV. On Italian a picture was taken during a potential hayardons waste site investigation that A pactual was raken away in four sol contamination in the area of the should a spot of dead vegetation possibly from soil contamination in the area of the barrels. In this area there are 290 empty drums and 16 full or partially full oburns. Only I full drum has a ball on it marked thylene afged. Many of the empty drumshad completely instedent. During the investigation, Mr. Nockberger, (manage of the facility), stated that the empty drums used to contain saint, fuel bil, of antificinge. It also stated that the fully drums were those that how become too deluted with rainwater and were stored back there as uslable product. The operations part of the facility consists of a garage mark shed diesel ful tanks and a storage area for feedstocks. The fledstocks wilhole oil, paint, paint thinner, and digitash. They are sited in 55 gallon dieses, numbering sever at most above time. No wastes are produced from use of the feedstocks. The company had one mind chemical spill on 4/14/86. an employee left a garden hose on overnight while making a solution of one part land- you (automotive Parts Cleanes) and two parts notes. The solution overflowed anto the floor and partially collected around a floor dram. The floor dram was immediately plugged upon discovering the incident. The floor dram leads to a ditch in front of the facility. The road ditch contained a small area of discoveration from the water. Approximately 200 gallons of the solution was spilled to the drain the other 25 gallons that was on the floor was collected and put in an ampty barrel. The facility pumped water from the ditch into empty tanks (7100 gallons). No sample new taken to know whether there were any elevated levels of golition. The ditch is connected to tradiana Harbor Canal. The Canal is 2 12 miles from the site. An over-land migration of contamination to a surface water body is rearly impossible. (3, 9,10,11,12)

(Previous investigations; analytical data)

reedstocks:

- Paint - Paint thinner

- Degreaser
- Antifreeze (Ethylene Slyeol)
- Antifreeze (Ethylene (Sarb-Gon) > [methylene Chloride, (resylic Acid,
Aromatic hydroranbon]

(7,3)

Octations are observed tooughned

S	urce Descriptions:
*	Imming an investigation on 9/10/80 a picture was taken that showed a spot of and regitation possibly from soil contamination.
*	190 empty wisted during and 16 full or partially full during are located on site.
	2 of o/4/91, there were still in the back section of the title.
ķ	On 4/14/26, there was a simon chemical spill to a dianthal led into a ditals in front of the facility.
	(2,3)

(See PA Table 1. page 5)

Duma = 1000 \Rightarrow 18

Contaminated April = 78 hores => 18

Water 1 = 36; Therefore WC = 18

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PA TABLE 1: WASTE CHARACTERISTICS (WC) SCORES

19,91 puf

PA Table 1a: WC Scores for Single Source Sites and Formulas for Multiple Source Sites

т		SINGLE S	SOURCE SITES (assigned WC a	cores)	MULTIPLE SOURCE SITES
ER	SOURCE TYPE	WC = 18	WC = 32	WC = 100	Formula for Assigning Source WQ Values
	N/A	≤100 fbs	> 100 to 10,000 lbs	> 10,000 lbe	1bs + 1
E>ma-em-40>&	N/A	≤500,000 fbs	> 500,000 to 50 million libs	>50 ma¥on fbs	tbs + 5,000
	Landfill	≤6.75 million ft ³ ≤250,000 yd ³	> 6.75 million ft ³ to 675 million ft ³ > 250,000 to 25 million yd ³	> 675 million ft ³ > 25 million yd ³	$ft^3 + 67,500$ $yd^3 + 2,500$
	Surface impoundment	≤6,750 ft³ ≤250 yd³	> 6,750 ft ³ to 675,000 ft ³ > 250 to 25,000 yd ³	> 675,000 ft ² > 25,000 yd ³	$ft^3 + 67.5$ $yd^3 + 2.5$
0	Drums	≤1,000 drums	>1,000 to 100,000 drums	>100,000 drums	drums + 10
UM	Tanks and non- drum containers	≤50,000 galions	>50,000 to 5 million gallons	>5 million gallons	gallons + 500
•	Contaminated soil	≤8.75 million ft ³ ≤250,000 yd ³	> 6.75 million ft ³ to 675 million ft ³ > 250,000 to 25 million yd ³	> 675 million ft ³ > 25 million yd ³	ft³ + 67,500 yd³ + 2,500
	Pile	≤6,750 ft³ ≤250 yd³	>6,750 ft ³ to 675,000 ft ³ >250 to 25,000 yt ²	>675,000 H ³ >25,000 yd ³	$ft^3 + 67.5$ $yd^3 + 2.5$
	Landfill	≤340,000 ft² ≤7.8 acres	>340,000 to 34 million ft ² >7.8 to 780 ecres	>34 million ft ² >780 ecres	ft ² + 3,400 acres + 0.078
	Surface impoundment	≤1,300 ft ² ≤0.029 ecree	> 1,300 to 130,000 ft ² > 0.029 to 2.9 scree	>130,000 ft ² >2.9 ecree	ft ² + 13 acres + 0.00029
Â	Contaminated soil	≤3,4 million ft² ≤78 acres	>3.4 million to 340 million ft ² >78 to 7,800 ecree	>340 million ft ² >7,800 ecres	ft + 34,000 acres + 0.78
^	Pile*	≤1,300 ft ³ ≤0.029 ecres	>1,300 to 130,000 ft ² >0.029 to 2.9 acres	>130,000 ft ² >2.9 ecres	ft + 13 acres + 0.00029
	Land treatment	≤27,000 ft ² ≤0.62 ecres	>27,000 to 2.7 million ft ² >0.62 to 62 acres	>2.7 enition ft ² >62 ecres	ft ³ + 270 acres + 0.0062

¹ ton = 2,000 lbs = 1 yd^3 = 4 drums = 200 gallons

PA Table 1b: WC Scores for Multiple Source Sites

WQ Total	WC Score
>0 to 100	18
>100 to 10,000	32
>10,000	100

^{*} Use area of famil surface under pile, not surface area of pile.

GROUND WATER USE DESCRIPTION

he general the groundwater within 4-miles of the Briffin Wellpoint site is not used for drinking proposes. The cities of Burnham, H.; Chichgo, II.; Est Chicago, IN; Hammond, IN; Whiting, IN; and Calimet City, II all be completely or partially within 4 miles of the site. He majorly of the populations in all of these other Ham there water from surface water intakes in Lakemichia The groundingter agrifes probably used in the site and is the Calumet Uquifer, The only known well in the site ones is 330 feet deep drawing its water from limestone bedrock. The well is located at Fost #1 Toll Hanga fortians Voll Kood I-90. This is less than I-mile from the site, appropriately half way between the Klinois-Indiana state line and Wolf Lake. The well is not used for dinking purposes. The Calumet haufer consists of uniconsolidated glacial deposits of the Columnet hacustral Plan. These deposits range in throkness from approximately 40 to 170 feet. The soil in the region consists of fine to medium sands with scattered deposits of organically nich selt. The son is of the Oakville - Towas association. Belowthe unconsolidated deposits lies limestone bedrock of Alvonian & The depth to bedrock in the Hiff Welfount site area is appropriated 107 feet. The water table is appropriately 15 feet below the sinface-the aren. The base flow of the Grand Californet and Little Californet Calumed harules. (1,2,4,5)

People within a 4-mile radius of the site of their drinking water populations:

drinking water from various surface water intakes in hake Michigan.

(1,2,3,4,5)

Hug 19,91 (cif.

This chart provides guidelines to assist you in hypothesizing the plane to a supertied in a restrict downlying primary impasts, the appending of the and committee will be svailable during the PA. Also, these content are not an unit, sine, but any other criteria you use to hypothesize a suspected release or to identify primary targets. This chart will record your professional judgment in evaluating these fectors.

Now well by 18 No 4 Y Co

The "Suspected Release" section of the chart guides you through evaluation of some sits, source, and pathway conditions to help hypothesize whether a release from the site is likely. If a release is suspected, use the "Primary Targets" section to guide you through evaluation of some conditions that will help identify targets likely to be exposed to hazardous substances. You may use this section of the chart more than once, depending on the number of targets you feel may be considered "primary." In the "Primary Targets" section on this sheet, record the responses for the well that you feel has the highest probability of being exposed to hazardous substances.

Check the boxes to indicate a "yes", "no", or "unknown" enswer to each question. If you check the "Suspected Release" box as "yes", make sure that you assign a Likelihood of Release value of 550 for the pathway.

	•		GROUND WATE	R PA	THW	ΑΥ	
	100	F	SUSPECTED RELEASE				PRIMARY TARGETS
Y	#)		Y	M.		
	• • •	•				÷	
	a .	0	Are sources poorly contained?	0		0	is any direking-water well nearby?
ם		0	is the source a type likely to contribute to ground water contamination (e.g., wet legoon)?	0	.0	•	is any neety dinking-water well closed?
D	•	ם	Is weste quantity perticularly large?	0		0	Has foul-tasting or foul-smolling water been reported by any nearby drinking-water users?
٥	D	•	Is precipitation heavy and infiltration rate high?	0	0		Do any pearby wells have a large drawdown or high production rate?
0	•	-	Is the site located in an area of karst terrain?		•		Are drinking water wells located between the stall and other wells that are suspected to be exposed to bezardess substances?
Ö	·C	•	Is the subsurface highly permeable or conductive?	0	•		Does any circumstantial evidence of ground water or drinking water contamination exist?
	٥		Is drinking water drawn from a shallow aquifer?	0		۵	Does any dinking-water well warrant sampling?
-	3	0	Are suspected contaminants highly mobile in ground water?	0	•		Other criteria?
0		0	Does any circumstantial evidence of ground water or drinking water contamination exist?	0			PRIMARY TARGET(S) IDENTIFIED?
0			Other criterie?				
		. · •	SUSPECTED RELEASE?		•		·
			. <u> </u>	1			

Summerize the rationals for suspected release lattach an additional page it necessary):

Contamination is unlikely dul to-the small amount (if any) of liquid spilled both onto the soil or into the ditch (surface water),

(3)

Summerize the rationals for Primary Targets (attach an additional page if necessary):

Summarize the rationals for Primary Targets lattach an additional page it necessary:

Groundwater is not used for drinking purposes in a 4-mile

radius of the site.

(1,3,4,5)

WASTE CHARACTERISTICS

TARGETS

8.	A.	If you have identified any Primary Targets for ground water, assign the wasta characteristics score calculated on page 4, or a score of 32, whichever is GREATER; do not evaluate part 8 of this factor.	1044 - 125		
	8.	If you have NOT identified any Primary Targets for ground water, assign the waste characteristics score calculated on page 4.	(Tell_10) or sign	18	
		wc =		18	

GROUND WATER PATHWAY SCORE:

LR x T x WC 82.500

* PA table danot used in scoring since there at the site.

see no drinking water wells within 4miles of the site.

are no drinking water populations.

PA Table 2a: Non-Karst Aquifers

		Mannet	the office of the state		100/	Action Se	ved by W	Population Served by Wells Within Distance Category William	Prience	Getreon			
			-	=	5	101	100	1,00,1	780	2.8	2 4	8.8	Population
Olstence		(choose	2	:	2	2	2	2	2 8	. 8	100,000	300.000	Velue
trace Stre	Population	Mg/hest/	70	30	280	8	1,000	335.5	+				
		2	•	7	•	9	62	163	621	1,633	8,214	10,326	
2 de 1		=	-	-	n	0	32	101	323	1,012	3,233	10,121	
		•	-	•	~	•	17	62	107	622	1.00	5,224	
				-	-	m	•	82	7	284	939	2,938	
> 1 to 2 miles) ,			_	7	^	77	80	212	878	2,122	
> 2 to 3 mean							*	13	42	131	417	1,306	
>3 to 4 miles		,											
•	- Maw				•			•		F.	••	Core -	

PA Table 2b: Korst Aquifers

		4400000	ALCOHOL INC. SONO SONO	A COMPANY OF SHIP	ALC: POO	Section Se	2 40 Per	Consensor Served by Weds Within Distence Caleban	DATERDO				
	-	7.7		1	3.5	101	100	1,001	3,007	10,001	76,007	18.20	
Distance		luse 20	. 8	2	1	2	2	2	2	2 5	2 00	2000	Velve
/rom S/:	Population	for kerst!	10	જ	700	ğ	200,	2000	10,000	200			
O to X m.44.		20	-	7	۵	2	62	163	621	1,633	6,214	16,326	
2		20	-	-	•	01	25	101	323	1,012	3,233	10,121	
		30	-	-	•	•	26	~	261	•	2,807	6,162	
		02	-	-	•	•	**************************************		201	:	2,607	0.102	
		30	_	-		•	70		192	•10	2,607	6,162	
**************************************		20	-	-	•	•	26	0.2	261	910	2,607	8,162	
											•	Score =	

* PA table 26 not used in scoring since the depth to the aquifer is less than 70 feet.

NOV 08 1990

SURFACE WATER PATHWAY MIGRATION ROUTE SKETCH

Griffia Wellpoint Corp. August

Provide a Sketch of the Surface Water Migration Route:

(include runoff route, probable point of entry, 15-mile target distance limit, intakes, fisheries, and sensitive environments)

* See attached map for 15-mile surface water routes

(9,10,11,12)